

(c) ~~piling up~~ placing the exfoliated cell layer on another cell layer formed on the same or another carrier.

7. (Canceled)

8. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the alginate gel layer is composed of a calcium alginate gel.

9. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the <sup>cell layer</sup> carrier further <sup>is on the</sup> comprises an extracellular matrix component gel layer or extracellular matrix component <sup>cell layer</sup> (ECM) sponge layer which is formed on the alginate gel layer.

B1 10. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the extracellular matrix component comprises a collagen.

11. (Currently Amended) The method of claim 5 6, further comprising forming a cell multi-layer.

12. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the porous membrane comprises a filter, an ultrafiltration membrane, a silicone rubber membrane, a polytetrafluoroethylene resin porous membrane, a nonwoven fabric or a gauze-like mesh.

13. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the porous membrane comprises pores.

14. (Previously added) The method of claim 13, wherein the <sup>membrane has</sup> pores are between about 0.02 to 1000  $\mu\text{m}$ .

15. (Previously added) The method of claim 9, wherein the extracellular matrix component comprises a collagen, an elastin, a proteoglycan, a glucosaminoglycan, a fibronectin, a laminin, a vitronectin or a heparan sulfate.

16. (Previously added) The method of claim 9, wherein the extracellular matrix component comprises a gel comprising collagen type IV, laminin and heparan sulfate.

17. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the thickness of the porous membrane is between about 0.01 to 1 mm, 0.01 to 0.1 mm, or 0.05 to 1 mm.

18. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the thickness of the alginate gel layer is between about 0.1 to 3 mm; or between about 1 to 2 mm; ~~or about 1 mm~~.

B1 19. (Currently Amended) The method of claim 9, wherein the thickness of the extracellular matrix component gel layer is between about 0.1 to 1 mm; or between about 0.2 to 0.5 mm; ~~or about 0.4 mm~~.

20. (Currently Amended) The method of claim 9, wherein the thickness of the extracellular matrix component sponge layer is between about 0.1 to 2 mm; or between about 0.2 to 1 mm; ~~or about 0.5 mm~~.

21. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein the cell is a fibroblast, a vascular endothelial cell, a chondrocyte, a hepatocyte, a small intestine epitheliocyte, an epidermis cornification cell, an osteoblast, a bone marrow mesenchymal cell or a fibroblast.

22. (Currently Amended) The method of ~~claim 5 or~~ claim 6, wherein <sup>when forming the cell layer</sup> a cell concentration of between about 10,000 to 15,000 cells/ml is added onto the alginate gel layer <sup>or the</sup>.

23. (Currently Amended) The method of ~~claim 5 or~~ claim 6, further comprising detaching the cells from the porous membrane by solubilizing the alginate gel layer.

24. (Previously added) The method of claim 22, wherein solubilization of the alginate gel layer is carried out by use of a chelating agent.

25. (Previously added) The method of claim 23, wherein the chelating agent comprises a polyaminocarboxylic acid, an ethylenediaminetetraacetic acid, an ethylene glycol-bis( $\beta$ -aminoethyl ether), an oxycarboxylic acids, or a citric acid.

26. (Previously added) A method for making a three-dimensional tissue structure comprising ~~the following steps~~:

(a) forming a cell layer on a carrier, wherein the carrier comprises a porous membrane and an alginate gel layer which is formed on the porous membrane;

(b) solubilizing ~~an~~ the alginate gel layer of the carrier thereby exfoliating the cell layer from a the porous membrane of the carrier; and

(c) ~~piling up~~ placing the exfoliated cell layer on another cell layer formed on the same or another carrier, thereby making a three-dimensional tissue structure.

27-28. (Canceled)

--29. (New) The method of claim 18, wherein the thickness of the alginate gel layer is about 1 mm.

30. (New) The method of claim 19, wherein the thickness of the extracellular matrix component gel layer is about 0.4 mm.

31. (New) The method of claim 20, wherein the thickness of the extracellular matrix component sponge layer is about 0.5 mm.--

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